

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L17	363	(250/283).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/20 11:27
L18	0	("l17and((replac\$4orremov\$4)with (ionadjsource)))".PN.	US-PGPUB; USPAT	OR	OFF	2007/07/20 11:28
L19	14	l17 and ((replac\$4 or remov\$4) with (ion adj source))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/20 11:39
L20	11	l17 and ((replac\$4 or remov\$4) same (ion adj source)) and clean\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/20 11:34
L21	7	l20 not l19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/20 11:34
L22	455	((replac\$4 or remov\$4) with (ion adj source)) and (mass adj spectromet\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/20 11:40
L23	41	l22 and ((electron near2 impact) with (ion adj source))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/20 11:41
L24	40	l23 not (l19 and l20)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/20 11:42

## EAST Search History

L25	29	("4179615"   "4700069"   "4771172"   "4975576"   "5017779"   "5028777"   "5107109"   "5136161"   "5153432"   "5373157"   "5384461"   "5401962"   "5412207"   "5420425"   "5459315"   "5525084"   "5561292"   "5572022"   "5596193"   "5613294"   "5616919"   "5719393"   "Re35701").PN. OR ("6239429"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/20 11:46
S1	0	WO-065920-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 14:29
S2	2	WO-2004065920-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 15:25
S3	1	("5313061").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/18 07:50
S4	154	(250/289).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/18 11:14
S5	9	S4 and ((mass adj separator) (mass adj analyzer)) with lens\$2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:12
S6	28	((mass adj separator) (mass adj analyzer)) with (focus\$4 adj lens\$2) AND (ion adj trap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:09

## EAST Search History

S7	936	((mass adj separator) (mass adj analyzer)) with (ion adj trap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 07:59
S8	27	S6 and S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 07:59
S9	1	S8 and (vacuum with (remov\$4 adj lid))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:00
S10	41	("5313061").URPN.	USPAT	OR	ON	2007/07/18 11:10
S11	1	S10 and S8	USPAT	OR	ON	2007/07/18 08:01
S12	16	("4023398"   "4531056"   "4842701"   "4861988"   "4885076"   "4977320"   "5015845"   "5103093"   "5171990"   "5313061"   "5352892"   "5412208"   "5756994"   "6124675"   "6462336"   "6700119").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 08:04
S13	1	S6 and S10	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 08:04
S14	1	S7 and S10	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 08:04
S15	116	((mass adj separator) (mass adj analyzer)) same (focus\$4 adj lens\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:09

## EAST Search History

S16	51	S15 and (vacuum adj chamber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:10
S17	37	S16 and (ion adj trap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:11
S18	37	S17 and (focus\$4 lens) and (ion adj trap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:11
S19	23	("3699330"   "3944827"   "3984682"   "4054796"   "4418280"   "4727249"   "4851669"   "4859848"   "4988869"   "5118939"   "5198666"   "5313061"   "5317151"   "5386115"   "5401963"   "5536939"   "5541408"   "5552599"   "5614711"   "5770857"   "5865631"   "6501074"   "6590207").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 08:20
S20	1	("5837883").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/18 08:24
S21	1	("5837883").URPN.	USPAT	OR	ON	2007/07/18 08:21
S22	5	("6351983").URPN.	USPAT	OR	ON	2007/07/18 08:22
S23	0	((focus adj lens) near4 (mass adj analyzer)).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:25

## EAST Search History

S24	8	((lens) near4 (mass adj analyzer)).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:26
S25	1	("6031379").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/18 08:26
S26	7	("3853637"   "3922349"   "5313061"   "5399856"   "5525799"   "5686655").PN. OR ("5837883").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 08:33
S27	1	("20060060771").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/18 08:34
S28	26	((focusing adj lens) and (vacuum)) with ((mass adj analyzer) (mass adj separat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 08:35
S29	41	("5313061").URPN.	USPAT	OR	ON	2007/07/18 11:10
S30	16	S29 and (ion adj sources)	USPAT	OR	ON	2007/07/18 11:11
S31	0	S29 and ((ion adj sources) not (ion adj source))	USPAT	OR	ON	2007/07/18 11:12
S32	0	((mass adj separator) (mass adj analyzer)) with ((ion adj sources) not (ion adj source))	USPAT	OR	ON	2007/07/18 11:12
S33	154	(250/289).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/18 11:14
S34	61	S33 and (ion adj sources)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:18
S35	33	S34 and (vacuum adj chamber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:20

## EAST Search History

S36	18	S35 and ((mass adj analyzer) (mass adj separat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:20
S37	61	S33 and (ion adj "sources")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:19
S38	18	S37 and S35 and S36	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:19
S39	362	plurality near2 (ion adj sources)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:20
S40	104	S39 and (vacuum adj chamber)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:20
S41	42	S40 and ((mass adj analyzer) (mass adj separat\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 11:20
S42	7	("3853637"   "3922349"   "5313061"   "5399856"   "5525799"   "5686655").PN. OR ("5837883").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 11:38

## EAST Search History

S43	90	("2916649"   "3084249"   "3230362"   "3291980"   "3594574"   "3659236"   "3699332"   "3700893"   "3939344"   "3946227"   "3984692"   "3992626"   "3996464"   "4008388"   "4016421"   "4037100"   "4160161"   "4209696"   "4213326"   "4256963"   "4266127"   "4296323"   "4315153"   "4411575"   "4442353"   "4459481"   "4459844"   "4472630"   "4472631"   "4480187"   "4514628"   "4517461"   "4536652"   "4560878"   "4652752"   "4686365"   "4694168"   "4723076"   "4746794"   "4812649"   "4842701"   "4851669"   "4866267"   "5012052"   "H000414").PN. OR ("5313061"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 12:23
S44	50	((ion adj sources) near5 (external)) with (vacuum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 12:10
S45	12	S44 and (electron near3 impact)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 12:18
S46	3	S44 and (remove with (ion adj sources))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 12:18
S47	418	(remov\$4 near3 (ion adj source))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 12:59
S48	2	S43 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 12:24

## EAST Search History

S49	1601	(250/281).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/19 12:31
S50	379	S49 and (mass adj spectromet\$3) and chromatograph	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 12:32
S51	0	S50 and (air adj tight) and (vacuum) and (remove with (ion adj source))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 12:34
S52	7	S50 and (vacuum) and (remove with (ion adj source))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 12:39
S53	176	(250/296).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/19 12:39
S54	3	S53 and (vacuum) and (remove with (ion adj source))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 12:41
S55	219	(250/298).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/19 12:40
S56	3	S55 and (vacuum) and (remove with (ion adj source))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 12:42
S57	2164	(250/288).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/19 12:59
S58	2164	(250/288).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/07/19 12:59
S59	41	(remov\$4 near3 (ion adj source)) and S58	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 13:00



## EAST Search History

S60	5	S59 and (vacuum near2 seal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 13:01
S61	6	((vacuum near2 seal) with (chamber)) same ((mass adj analyzer) or (mass adj separator))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 13:02
S62	6	("4238678"   "5436446"   "5545304"   "5616918"   "5811800"   "6124592").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/19 13:45
S63	1	("6828550").URPN.	USPAT	OR	ON	2007/07/19 13:46